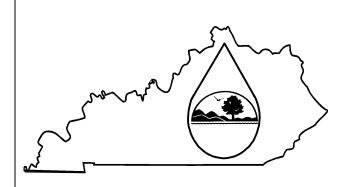
US ERA ARCHIVE DOCUMENT

KPDES FORM C



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: Trace Fork Surface Mine	County: Knott									
I OUTEAU LOCATION	AGENCY									
I. OUTFALL LOCATION	USE									

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No.		LATITUDE			LONGITUDE		
(list)	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	RECEIVING WATER (name)
BS12	37	15	37	83	00	18	Trace Fork
BS13	37	15	35	83	00	09	Trace Fork
BS14	37	15	43	83	00	04	Trace Fork
BS15	37	15	49	83	00	07	Trace Fork
BS16	37	15	59	83	00	09	Trace Fork
BS17	37	16	05	83	00	13	Trace Fork
BS18	37	16	13	83	00	15	Trace Fork
BS19	37	16	21	83	00	19	Trace Fork
BS20	37	16	25	83	00	18	Trace Fork

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

1

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRI	BUTING FLOW	TREATMENT	1
(list)	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
BS12	Surface runoff	10 11 ofg (mools)	Sedimentation	1-U
DS12	Surface runoff	18.11 cfs (peak)	Discharge to surface water	4-A
BS13	Surface runoff	21.28 of (nook)	Sedimentation	1-U
DS13	Surface runoff	21.38 cfs (peak)	Discharge to surface water	4-A
BS14	Surface runoff	24.71 of (nools)	Sedimentation	1-U
DS14	Surface runoff	24.71 cfs (peak)	Discharge to surface water	4-A
BS15	Surface runoff	22.05 of (nools)	Sedimentation	1-U
DS15	Surface runoff	22.05 cfs (peak)	Discharge to surface water	4-A
DC16	Carafa ao aman aff	22 02 of (moole)	Sedimentation	1-U
BS16	Surface runoff	23.92 cfs (peak)	Discharge to surface water	4-A
DC17	Carafa ao aman aff	20 47 of (moole)	Sedimentation	1-U
BS17	Surface runoff	29.47 cfs (peak)	Discharge to surface water	4-A
DC10	Surface runoff	26.72 of a (moole)	Sedimentation	1-U
BS18	Surface runoff	26.73 cfs (peak)	Discharge to surface water	4-A
DC10	Carala ao amana a fe	24.54 of a (ma - 1-)	Sedimentation	1-U
BS19	Surface runoff	34.54 cfs (peak)	Discharge to surface water	4-A
DC20	Carafa ao aman aff	92 (2 of a (moole)	Sedimentation	1-U
BS20	Surface runoff	83.63 cfs (peak)	Discharge to surface water	4-A

C. Except for	storm water runoff, lea	aks, or spills	, are any of	f the discharges	described in It	ems II-A or B is	ntermittent or se	easonal?					
Yes (Complete the following table.) No (Go to Section III.)													
OUTFALL OPERATIONS FREQUENCY FLOW													
NUMBER	CONTRIBUTING	Days	Months	Flow	Rate	Total v	volume	Duration					
	FLOW	Per Week	Per	(in n	ngd)	(specify v	vith units)	(in days)					
			Year										
(list)	(list)	(specify	(specify	Long-Term	Maximum	Long-Term	Maximum						
		average)	average)	Average	Daily	Average	Daily						
		I.											
III. MAXIN	IUM PRODUCTION												

2

FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

Yes (Complete Item III-B) List effluent guideline category:

No (Go to Section IV)

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		erms and units	s used in the applical	n represents the actual measurable effluent guideline, and ind		affected outfalls.				
Quantity Per Day	Units of	MAXIMUM Measure	M QUANTITY Operation	n, Product, Material, Etc. (specify)		Affected Outfalls (list outfall numbers				
				(0,000.5)						
IV. IMPROVEME										
upgrading, or op discharges descri orders, enforcement	peration of wibed in this a	vastewater eq pplication? To se schedule le	quipment or practic This includes, but is etters, stipulations, co	rity to meet any implementates or any other environment not limited to, permit conditional orders and grant or loan of the No (Go to Item IV-B)	tal progra tions, adn	ams which may ninistrative or e	affect the			
IDENTIFICATION OF AGREEMENT,		AFFEC No.	CTED OUTFALLS Source of Discharge	BRIEF DESCRIPTION OF P	ROJECT	FINAL COMP	LIANCE DAT			
environmental pr	ojects which	may affect yo	our discharges) you i	additional water pollution co now have under way or which or planned schedules for cons	you plan.		er each			
V. INTAKE AND	EFFLUENT	CHARACT	ERISTICS							
spa	ce provided.	-		e set of tables for each outfall n separate sheets numbered 5		te the outfall nui	mber in the			
which you know	or have reaso	n to believe i	s discharged or may	Title III, Section 313) listed is be discharged from any outfact any analytical data in your	ll. For eve	ery pollutant you				
POLLUTAN	T	so	URCE	POLLUTANT		SOURCE				
NONE										

3

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

VI.	POTENT	IAL DISCHARGES NOT COVERE	D BY ANALYS	SIS			
		tant listed in Item V-C a substance or a er the next 5 years as an immediate or t				or produce, or expe	ct to use or
		Yes (List all such pollutants below)		\boxtimes	No (Go to Item	VI-B)	
		perations such that your raw materials, f pollutants may during the next 5 year					hat your
		Yes (Complete Item VI-C)	No (Go	to Item	VII)		
€	expected le	rered "Yes" to Item VI-B, explain belowels of such pollutants which you anticheets if you need more space.					
VII.	BIOLO	GICAL TOXICITY TESTING DATA	A				
		y knowledge of or reason to believe that a receiving water in relation to your d				oxicity has been mad	de on any of your
		Yes (Identify the test(s) and describe	e their purposes	below)	\boxtimes	No (Go to Section	vIII)

4

VIII. CONTRACT ANALYSIS INFORMATION

Were any	of the	analyses	reported in	Item V	performed by	v a contract	laboratory of	r consulting	firm?
vv Ci C aii	or the	anai y ses	reported in	ItCIII V	periorinea o	y a contract	indointory of	i consumiz.	

Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below)

NAME	ADDRESS	TELEPHONE	POLLUTANTS
		(Area code & number)	ANALYZED (list)
Geological Sciences and	3133 North Main Street	(606) 439-3373	Total Suspended Solids
Laboratory, Inc.	Hazard, KY 41701		Antimony, Total
			Chromium, Total
			Nickel, Total
			Zinc, Total
			Sulfate
			pН
			Arsenic, , Total
			Copper, Total
			Selenium, Total
			Cyanide, Total
			Iron, Total
			Beryllium, Total
			Lead, Total
			Silver, Total
			Phenols, Total
			Hardness
			Manganese, Total
			Cadmium, Total
			Mercury, Total
			Thallium, Total

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Ronald B. Hall VP	276-679-7060
SIGNATURE	DATE 6-27-08
Tomole B. Har	6 2, 20

DOCUMENT

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

*The following tables include only those pollutants which are believed to be present in the sample or for which testing is required

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)

OUTFALL NO.

Part A -	 You must 	provide t	the results of	of at l	east one analy	sis	for every	pollutant	in tł	nis ta	ble.	Comp	lete one ta	able	for eacl	ı outfal	l. Se	e instruction	s for a	dditiona	l details.

				2. EFFLUENT			3. UNI (specify if		4. INTAKE (optional)			
1. POLLUTANT	a. Maximum	Daily Value	b. Maximum 3 (if avai		· · · · · · · · · · · · · · · · · · ·		d. No. of	a. Concentration	b. Mass	a. Long-Term		b.
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	No of Analyses
Total Suspended Solids (TSS)	22						1	mg/L				
Flow (in units of MGD)	VAL .000		VALUE		VALUE		1	MGD		VALUE		
рН	MINIMUM 6.68	MAXIMUM 6.68	MINIMUM	MAXIMUM			1	STANDAR	D UNITS			

Part B - In the MARK "X" column, place an "X" in the <u>Believed Present</u> column for each pollutant you know or have reason to believe is present. Place an "X" in the <u>Believed Absent</u> column for each pollutant you believe to be absent. If you mark the <u>Believed Present</u> column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1.	2	2.				3.	4.		6.					
POLLUTANT	MARK "X"				EF	FLUENT	UNITS		INTAKE (optional)					
AND CAS NO.	a.	b.	a. Maximum Da	ily Value	b. Maximum 3		c. Long-Tern		d.			a. Long-Term Avg		b.
1					Value (if available)		Value (if available)		No. of	a.	b.	Value	No. of	
(if available)	Believed	Believed	(1)	(2)	(1)	(1) (2)		(2)	Analyses	Concentration	Mass	(1)	(2)	Analyses
	Present	Absent	Concentration	Mass	Concentration Mass C		Concentration	Mass				Concentration	Mass	
Hardness (as CaCO ₃)	X		80						1	mg/L				
Sulfate (as SO ₄) (14808-79-8)	X		250						1	mg/L				
Iron, Total (7439-89-6)	X		0.98						1	mg/L				
Manganese, Total (7439-96-6)	X		0.57						1	mg/L				_

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1.	2. MARK "X"				EFF	4. UNITS		INTAK	l)						
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value		b. Maximum 3 Value (if avail	0-Day able)	c. Long-Term Value (if avail	Avg. able)	g. d. No. of	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	· ·
METALS, CYAN	NIDE AND T	OTAL PHE	NOLS							•		•			
Antimony Total (7440-36-0)	X			0.00						1	mg/L				
Arsenic, Total (7440-38-2)	X			0.00						1	mg/L				
Beryllium Total (7440-41-7)	X			0.00						1	mg/L				
Cadmium Total (7440-43-9)	X			0.00						1	mg/L				
Chromium Total (7440-43-9)	X			0.00						1	mg/L				
Copper Total (7550-50-8)	X			0.01						1	mg/L				
Lead Total (7439-92-1)	X			0.00						1	mg/L				
Mercury Total (7439-97-6)	X			0.00						1	mg/L				
Nickel, Total (7440-02-0)	X			0.00						1	mg/L				
Selenium, Total (7782-49-2)	X			0.00						1	mg/L				

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	Part C – Continued 2. 3. 4. 5.															
			2.				4. UNITS		5. INTAKE (optional)							
	1.	I	MARK "X"			EFF:										
	POLLUTANT And CAS NO.	a. a. Believed			a. Maximum Daily	b. Maximum 30 Value Value (if avail						a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of
4	(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
П	METALS, CYANIDE AND TOTAL PHENOLS (Continued)															
	Silver, Total (7440-28-0)	X			0.00						1	mg/L				
	Thallium, Total (7440-28-0)	X			0.00						1	mg/L				
?	Zinc, Total (7440-66-6)	X			0.01						1	mg/L				
	Cyanide, Total (57-12-5)	X			0.00						1	mg/L				
	Phenols, Total	X			0.00						1	mg/L				